$$\frac{[\Gamma(s)]^{2}}{\Gamma(2s)} = \frac{1}{2^{2s-1}} \frac{[\Gamma(s)]}{\Gamma(s+\frac{1}{2})}$$

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$$\Rightarrow \frac{[\Gamma(2s)]}{\Gamma(2s)} = \frac{2^{2s-1}}{2^{2s-1}} \frac{[\Gamma(s)]}{\Gamma(s+\frac{1}{2})}$$

$$\Rightarrow \frac{[\Gamma(2s)]}{\Gamma(2s)} = \frac{2^{2s-1}}{2^{2s-1}} \frac{[\Gamma(s)]}{\Gamma(s+\frac{1}{2})}$$

$$\Rightarrow \frac{[\Gamma(n+\frac{1}{2})]}{\Gamma(n+\frac{1}{2})} = \frac{[2n]}{\Gamma(n+\frac{1}{2})}$$

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$$\Rightarrow \frac{[$$





